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Stellingen

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Processing Ferroelectric Polymers for Organic Memories

Mengyuan Li

6 June 2014

1. In polymer processing, every seemingly-irrelevant detail turns out to be crucial.

   Chapter 3: solvent
   Chapter 5: annealing procedure
   Chapter 6: deposition temperature
   Chapter 7: humidity
   Chapter 8: phase diagram compositional trajectory

2. Wire-bar coating is the ideal technology to process thin films, as demonstrated for incompatible polymer blends. (Chapter 3)

3. Cross-talk in cross-bar memory arrays can be prevented by using an unpatterned storage medium consisting of a phase-separated blend of a ferroelectric and a semiconducting polymer. (Chapter 4)

4. The replacement of the specialty polymer P(VDF–TrFE) by the commodity polymer PVDF may boost large-scale industrial applications such as smart labels and electronic paper. (Chapter 6)

5. Formation of opaque thin films is a general problem of any ternary polymer / solvent / non-solvent system where a high boiling point solvent is used that is fully miscible with the non-solvent. (Chapter 8)

6. The perfect material fortunately does not exist. There always remains room for improvement.

7. A compass will always point you to the True North from wherever you are standing, but it gives no advice about the swamps and deserts and chasms along the way.

8. Nothing someone says really counts before the word “but”.

9. 不如闲，不如醉，不如痴。(Eat, Pray, Love.)